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L14: Entry 1 of 9

File: DWPI

Oct 3, 2002

DERWENT-ACC-NO: 2002-692199

DERWENT-WEEK: 200276

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TITLE: New mouse monoclonal antibodies against western equine encephalitis virus (WEEV) useful in immunodetection of WEEV, diagnosis of infection and immunotherapy

INVENTOR: NAGATA, L P

PRIORITY-DATA: 2001CA-2332651 (February 14, 2001), 2001US-0793606 (February 27, 2001)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>US 20020141997 A1</u>	October 3, 2002		000	A61K039/42
<input type="checkbox"/> <u>CA 2332651 A1</u>	August 14, 2002	E	010	C07K016/08

INT-CL (IPC): A61 K 39/42; C07 K 16/08; C12 N 5/12; C12 P 21/08; C12 Q 1/70; G01 N 33/532; G01 N 33/543; G01 N 33/577

ABSTRACTED-PUB-NO: CA 2332651A

## BASIC-ABSTRACT:

NOVELTY - Mouse monoclonal antibodies against western equine encephalitis virus (WEEV) expressed from hybridomas are new.

USE - The monoclonal antibodies can be used in immunodetection of WEEV and diagnosis of WEEV infection, e.g. they can be used in immunohistochemistry techniques, radioimmunodiagnosis or immunoassays such as enzyme linked immunosorbant assay (ELISA)-based detection assays to detect WEEV.

Antibodies binding to WEEV in ELISA assays at dilutions greater than 1 in 320 and having no cross-reactivity with other alphaviruses are especially useful in WEEV detection and diagnosis. The antibodies are also useful in immunotherapy and radioimmunotherapy (claimed) for WEEV infection.

ABSTRACTED-PUB-NO: CA 2332651A

## EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/3

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☐ 1. Document ID: US 20020141997 A1, CA 2332651 A1

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File: DWPI

Oct 3, 2002

DERWENT-ACC-NO: 2002-692199

DERWENT-WEEK: 200276

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TITLE: New mouse monoclonal antibodies against western equine encephalitis virus (WEEV) useful in immunodetection of WEEV, diagnosis of infection and immunotherapy

INVENTOR: NAGATA, L P

PRIORITY-DATA: 2001CA-2332651 (February 14, 2001), 2001US-0793606 (February 27, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020141997 A1	October 3, 2002		000	A61K039/42
CA 2332651 A1	August 14, 2002	E	010	C07K016/08

INT-CL (IPC): A61 K 39/42; C07 K 16/08; C12 N 5/12; C12 P 21/08; C12 Q 1/70; G01 N 33/532; G01 N 33/543; G01 N 33/577

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw. De
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☐ 2. Document ID: EP 1355895 A2, WO 200250053 A2, AU 200245095 A

L14: Entry 2 of 9

File: DWPI

Oct 29, 2003

DERWENT-ACC-NO: 2002-575343

DERWENT-WEEK: 200379

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TITLE: New eremophilane sesquiterpenes other than valencene, nootkatone, nootkatol, epinootkatol or nootkatene useful as pesticides

INVENTOR: DOLAN, M C; KARCHESY, J ; MAUPIN, G O ; PANELLA, N A

PRIORITY-DATA: 2000US-254311P (December 8, 2000)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1355895 A2	October 29, 2003	E	000	C07D303/04

WO 200250053 A2	June 27, 2002	E	089	C07D303/04
AU 200245095 A	July 1, 2002		000	C07D303/04

INT-CL (IPC): A01 N 31/04; A01 N 43/20; C07 C 33/14; C07 C 47/225; C07 D 303/04;  
C07 D 303/32

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20030143201 A1, CA 2327189 A1

L14: Entry 3 of 9

File: DWPI

Jul 31, 2003

DERWENT-ACC-NO: 2002-600289

DERWENT-WEEK: 200357

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TITLE: A western equine encephalitis (WEE) virus strain used to develop DNA vaccines to WEE virus and related alphaviruses

INVENTOR: NAGATA, L P; WONG, J P

PRIORITY-DATA: 2000CA-2327189 (December 21, 2000), 2001US-0023649 (December 21, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20030143201 A1</u>	July 31, 2003		000	A61K048/00
<u>CA 2327189 A1</u>	June 21, 2002	E	052	C12N007/00

INT-CL (IPC): A61 K 39/12; A61 K 48/00; C12 N 7/00; C12 N 15/11; C12 N 15/63

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 4. Document ID: US 6017691 A

L14: Entry 4 of 9

File: DWPI

Jan 25, 2000

DERWENT-ACC-NO: 2000-136668

DERWENT-WEEK: 200378

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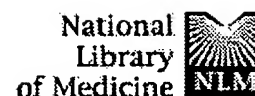
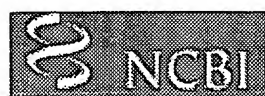
TITLE: Composition having anti-viral properties comprises a psoralen derivative and platelets for in vivo use

INVENTOR: ISAACS, S T; NERIO, A ; RAPOPORT, H ; SPIELMANN, H P ; WOLLOWITZ, S

PRIORITY-DATA: 1994US-0212113 (March 11, 1994), 1993US-0083459 (June 28, 1993), 1996US-0599284 (February 9, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6017691 A</u>	January 25, 2000		062	A01N001/02



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ClinicalTrials.gov  
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- ☐ 1: [Netolitzky DJ, Schmaltz FL, Parker MD, Rayner GA, Fisher GR, Trent DW, Bader DE, Nagata LP.](#) Related Articles, Links

Complete genomic RNA sequence of western equine encephalitis virus and expression of the structural genes.  
J Gen Virol. 2000 Jan;81(Pt 1):151-9.  
PMID: 10640553 [PubMed - indexed for MEDLINE]

- ☐ 2: [Weaver SC, Hagenbaugh A, Bellew LA, Netesov SV, Volchkov VE, Chang GJ, Clarke DK, Gousset L, Scott TW, Trent DW, et al.](#) Related Articles, Links

A comparison of the nucleotide sequences of eastern and western equine encephalomyelitis viruses with those of other alphaviruses and related RNA viruses.  
Virology. 1993 Nov;197(1):375-90. Erratum in: [Virology. 1994 Aug 1;202\(2\):1083.](#)  
PMID: 8105605 [PubMed - indexed for MEDLINE]

- ☐ 3: [Meissner JD, Huang CY, Pfeffer M, Kinney RM.](#) Related Articles, Links

Sequencing of prototype viruses in the Venezuelan equine encephalitis antigenic complex.  
Virus Res. 1999 Oct;64(1):43-59.  
PMID: 10500282 [PubMed - indexed for MEDLINE]

- ☐ 4: [Chang GJ, Trent DW.](#) Related Articles, Links

Nucleotide sequence of the genome region encoding the 26S mRNA of eastern equine encephalomyelitis virus and the deduced amino acid sequence of the viral structural proteins.  
J Gen Virol. 1987 Aug;68 ( Pt 8):2129-42.  
PMID: 2886548 [PubMed - indexed for MEDLINE]










- ☐ 5: [Kinney RM, Johnson BJ, Welch JB, Tsuchiya KR, Trent DW.](#) Related Articles, Links

The full-length nucleotide sequences of the virulent Trinidad donkey strain of Venezuelan equine encephalitis virus and its attenuated vaccine derivative, strain TC-83.  
Virology. 1989 May;170(1):19-30.  
PMID: 2524126 [PubMed - indexed for MEDLINE]

- ☐ 6: [Weaver SC, Kang W, Shirako Y, Rumenapf T, Strauss EG, Strauss JH.](#) Related Articles, Links

Recombinational history and molecular evolution of western equine encephalomyelitis complex alphaviruses.  
J Virol. 1997 Jan;71(1):613-23.  
PMID: 8985391 [PubMed - indexed for MEDLINE]

- ☐ 7: [Strauss EG, Rice CM, Strauss JH.](#) Related Articles, Links

-  Complete nucleotide sequence of the genomic RNA of Sindbis virus.  
Virology. 1984 Feb;133(1):92-110.  
PMID: 6322438 [PubMed - indexed for MEDLINE]
- ☐ **8:** [Johnson BJ](#), [Kinney RM](#), [Kost CL](#), [Trent DW](#). Related Articles, Links
-  Molecular determinants of alphavirus neurovirulence: nucleotide and deduced protein sequence changes during attenuation of Venezuelan equine encephalitis virus.  
J Gen Virol. 1986 Sep;67 ( Pt 9):1951-60.  
PMID: 3755750 [PubMed - indexed for MEDLINE]
- ☐ **9:** [Jan LR](#), [Chen KL](#), [Lu CF](#), [Hornig CB](#). Related Articles, Links
-  Partial nucleotide sequence of Japanese encephalitis virus ling strain genome and comparison of the encoded structural proteins and nonstructural protein NS1 among Japanese encephalitis virus strains.  
Zhonghua Min Guo Wei Sheng Wu Ji Mian Yi Xue Za Zhi. 1994 May;27(2):80-9.  
PMID: 9747336 [PubMed - indexed for MEDLINE]
- ☐ **10:** [Vrati S](#), [Giri RK](#), [Razdan A](#), [Malik P](#). Related Articles, Links
-  Complete nucleotide sequence of an Indian strain of Japanese encephalitis virus: sequence comparison with other strains and phylogenetic analysis.  
Am J Trop Med Hyg. 1999 Oct;61(4):677-80.  
PMID: 10548310 [PubMed - indexed for MEDLINE]
- ☐ **11:** [Sokolova TM](#), [Selivanova TK](#), [Lebedev AIu](#), [Bystrov NS](#), [Gromashevskii VL](#), [Parasiuk NA](#), [Ionova KS](#), [Uryvaev LV](#). Related Articles, Links
-  [Similarities and differences between western equine encephalomyelitis viruses with respect to genes for nonstructural protein NSP2 and structural proteins C and E2]  
Vopr Virusol. 1996 Sep-Oct;41(5):209-14. Russian.  
PMID: 8967065 [PubMed - indexed for MEDLINE]
- ☐ **12:** [Schoepp RJ](#), [Smith JF](#), [Parker MD](#). Related Articles, Links
-  Recombinant chimeric western and eastern equine encephalitis viruses as potential vaccine candidates.  
Virology. 2002 Oct 25;302(2):299-309.  
PMID: 12441074 [PubMed - indexed for MEDLINE]
- ☐ **13:** [Shirako Y](#), [Yamaguchi Y](#). Related Articles, Links
-  Genome structure of Sagiya virus and its relatedness to other alphaviruses.  
J Gen Virol. 2000 May;81(Pt 5):1353-60.  
PMID: 10769079 [PubMed - indexed for MEDLINE]
- ☐ **14:** [Uryvaev LV](#), [Volckhov VE](#), [Iuferov VP](#), [Samokhvalov EI](#), [Lebedev AIu](#), [Safronov PF](#), [Netesov SV](#). Related Articles, Links
-  [Primary structure of proteins of the nsP2 and nsP3 polymerase complex confirm the recombinant nature of western encephalitis virus]  
Dokl Akad Nauk. 1994 Apr;335(6):813-8. Russian. No abstract available.  
PMID: 8025555 [PubMed - indexed for MEDLINE]
- ☐ **15:** [Khan AH](#), [Morita K](#), [Parquet Md Mdel C](#), [Hasebe F](#), [Mathenge EG](#), [Igarashi A](#). Related Articles, Links
-  Complete nucleotide sequence of chikungunya virus and evidence for an internal polyadenylation site.

INT-CL (IPC): A01 N 1/02; A01 N 63/00; C12 N 7/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. D
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☐ 5. Document ID: EP 1032265 B1, WO 9926476 A1, AU 9915929 A, EP 1032265 A1, US 6133460 A, AU 747842 B, US 6455286 B1, US 20030082510 A1, JP 2003525848 W

L14: Entry 5 of 9

File: DWPI

Oct 29, 2003

DERWENT-ACC-NO: 1999-357694

DERWENT-WEEK: 200379

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TITLE: Psoralen compounds and their salts, e.g. 3-(4-amino-2-oxa)butyl-4,4'-8-trimethyl-psoralen

INVENTOR: NERIO, A; WOLLOWITZ, S

PRIORITY-DATA: 1998US-0196935 (November 20, 1998), 1997US-066224P (November 20, 1997), 2000US-0500680 (February 9, 2000), 2002US-0208583 (July 30, 2002)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1032265 B1</u>	October 29, 2003	E	000	A01N043/16
<u>WO 9926476 A1</u>	June 3, 1999	E	053	A01N043/16
<u>AU 9915929 A</u>	June 15, 1999		000	
<u>EP 1032265 A1</u>	September 6, 2000	E	000	A01N043/16
<u>US 6133460 A</u>	October 17, 2000		000	C07D493/00
<u>AU 747842 B</u>	May 23, 2002		000	A01N043/16
<u>US 6455286 B1</u>	September 24, 2002		000	C12N013/00
<u>US 20030082510 A1</u>	May 1, 2003		000	A01N001/02
<u>JP 2003525848 W</u>	September 2, 2003		066	C07D493/04

INT-CL (IPC): A01 N 1/02; A01 N 43/16; A61 K 31/35; A61 K 31/352; A61 K 35/14; A61 P 31/00; A61 P 43/00; C07 D 211/72; C07 D 493/00; C07 D 493/04; C12 N 13/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. D
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☐ 6. Document ID: WO 9853077 A1, AU 9875018 A, US 6261570 B1

L14: Entry 6 of 9

File: DWPI

Nov 26, 1998

DERWENT-ACC-NO: 1999-045316

DERWENT-WEEK: 199904

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TITLE: New DNA encoding infectious Western or Venezuelan equine encephalitis virus genome - useful for the production of live or attenuated vaccines for human or veterinary medicine

INVENTOR: CRISE, B J; OBERSTE, M S ; PARKER, M D ; SCHMURA, S M ; SMITH, J F

PRIORITY-DATA: 1997US-0991840 (December 16, 1997), 1997US-047162P (May 20, 1997),

1997US-053652P (July 24, 1997)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9853077 A1</u>	November 26, 1998	E	111	C12N015/40
<u>AU 9875018 A</u>	December 11, 1998		000	C12N015/40
<u>US 6261570 B1</u>	July 17, 2001		000	A61K039/12

INT-CL (IPC): A61 K 39/12; A61 K 39/193; C12 N 7/01; C12 N 7/04; C12 N 15/40; C12 N 15/86

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 7. Document ID: EP 85859 A, DE 3362840 G, EP 85859 B, JP 58134992 A, JP 90013677 B, US 4503152 A, US 4626547 A

L14: Entry 7 of 9

File: DWPI

Aug 17, 1983

DERWENT-ACC-NO: 1983-742376

DERWENT-WEEK: 198334

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TITLE: Antibiotic AM-2604-A produced by Streptomyces strain - with coccidiostatic, trichomonacidal, antifungal and antiviral activity

INVENTOR: HINOTOZAWA, K; IWAI, Y ; OMURA, S ; SHIMIZU, H

PRIORITY-DATA: 1982JP-0006756 (January 21, 1982)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 85859 A</u>	August 17, 1983	E	039	
<u>DE 3362840 G</u>	May 15, 1986		000	
<u>EP 85859 B</u>	April 9, 1986	E	000	
<u>JP 58134992 A</u>	August 11, 1983		000	
<u>JP 90013677 B</u>	April 4, 1990		000	
<u>US 4503152 A</u>	March 5, 1985		000	
<u>US 4626547 A</u>	December 2, 1986		000	

INT-CL (IPC): A23K 1/16; A61K 31/36; A61K 35/74; C07D 407/06; C07G 11/00; C07H 13/04; C12P 1/06; C12P 17/16; C12R 1/46

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 8. Document ID: EP 39923 A, CA 1153967 A, DE 3161484 G, EP 39923 B, JP 56158795 A, JP 87042918 B, US 4533547 A

L14: Entry 8 of 9

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Nov 18, 1981

DERWENT-ACC-NO: 1981-87515D

DERWENT-WEEK: 198148

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TITLE: Antiviral antibiotic AM-2722 - prepd. by culturing Streptomyces sp.  
aerobically, also has antifungal and anti-yeast activityINVENTOR: HASHIMOTO, H; HIRANO, A ; IWAI, Y ; KOJIMA, Y ; NAKAGAWA, A ; OIWA, R ;  
OMURA, S

PRIORITY-DATA: 1980JP-0061936 (May 10, 1980)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 39923 A</u>	November 18, 1981	E	025	
<u>CA 1153967 A</u>	September 20, 1983		000	
<u>DE 3161484 G</u>	December 29, 1983		000	
<u>EP 39923 B</u>	November 23, 1983	E	000	
<u>JP 56158795 A</u>	December 7, 1981		000	
<u>JP 87042918 B</u>	September 10, 1987		000	
<u>US 4533547 A</u>	August 6, 1985		000	

INT-CL (IPC): A61K 35/66; C07G 11/00; C12N 1/02; C12P 1/02; C12R 1/46

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	KWC	Draw D
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☐ 9. Document ID: US 3651211 A

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DERWENT-ACC-NO: 1972-25238T

DERWENT-WEEK: 197216

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TITLE: Virus inactivation - using sulphydryl reagents

PRIORITY-DATA: 1967US-0675281 (October 16, 1967)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 3651211 A</u>			000	

INT-CL (IPC): A61K 23/00; C12K 7/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	KWC	Draw D
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File: DWPI

Jul 31, 2003

DERWENT-ACC-NO: 2002-600289

DERWENT-WEEK: 200357

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TITLE: A western equine encephalitis (WEE) virus strain used to develop DNA vaccines to WEE virus and related alphaviruses

INVENTOR: NAGATA, L P; WONG, J P

PRIORITY-DATA: 2000CA-2327189 (December 21, 2000), 2001US-0023649 (December 21, 2001)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <a href="#">US 20030143201 A1</a>	July 31, 2003		000	A61K048/00
<input type="checkbox"/> <a href="#">CA 2327189 A1</a>	June 21, 2002	E	052	C12N007/00

INT-CL (IPC): [A61 K 39/12](#); [A61 K 48/00](#); [C12 N 7/00](#); [C12 N 15/11](#); [C12 N 15/63](#)

ABSTRACTED-PUB-NO: CA 2327189A

## BASIC-ABSTRACT:

NOVELTY - A western equine encephalitis (WEE) virus strain 71V-1658 comprising a fully defined 11484 nucleotide sequence (I), given in the specification, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a process (P1) for preparing a recombinant DNA vaccine for inducing protective immune response to WEE virus in a mammal by preparing a nucleic acid suitable for producing an antigenic determinant in a mammal in vivo by encoding an antigenic determinant of WEE virus strain 71V-1658 structural proteins operatively linked to a mammalian expression promoter;

(2) a prophylactic method (M1) for inducing protective immune response to WEE virus in a mammal comprising:

(i) preparing a nucleic acid suitable for producing antigenic determinant in a mammal in vivo by encoding antigenic determinant of WEE virus 71V-1658 structural proteins operatively linked to a mammalian expression promoter; and

(ii) delivering the nucleic acid into the mammal;

(3) a structural gene pcDWXH-7 comprising a fully defined 4150 nucleotide sequence (II) given in the specification;

(4) a recombinant DNA expression vector pVHX-6 comprising a fully defined upstream 3495 nucleotide sequence (III) given in the specification and having a remaining nucleotide sequence identical to that of structural gene pcDWXH-7 of sequence (II) from the point of divergence;

(5) a recombinant DNA vaccine for inducing protective immune response to WEE virus where the structural proteins of WEE virus sequence (II) is operationally linked to a cytomegalovirus promoter in a nucleic acid pVHX-6 of sequence (III).

ACTIVITY - Anti-encephalitis.

MECHANISM OF ACTION - None given.

USE - The invention provides a means of developing a vaccine to the WEE virus which is important for protection against an aerosol challenge of WEE used in biological warfare. The prophylactic method of the invention is used for inducing a protective immune response to eastern equine encephalitis virus and Venezuelan equine encephalitis virus in a mammal.

DESCRIPTION OF DRAWING(S) - Diagram showing the WEE 71V-1658 sequencing strategy. The location of polymerase chain reaction probe sequences used to screen the WEE cDNA library are also indicated, along with the genomic organization of the virus.

ABSTRACTED-PUB-NO: CA 2327189A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/11

## WEST Search History





DATE: Tuesday, December 30, 2003

<b>Hide?</b>	<b>Set Name</b>	<b>Query</b>	<b>Hit Count</b>
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<input type="checkbox"/>	L14	Western equine encephalitis	9
	<i>DB=EPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L13	L12	0
<input type="checkbox"/>	L12	CA-2332651-A1.did.	0
<input type="checkbox"/>	L11	CA-2332651-A1.did.	0
	<i>DB=DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L10	Western equine encephalitis	9
<input type="checkbox"/>	L9	L3 and recombinant	0
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L8	L3 and recombinant .clm.	17
<input type="checkbox"/>	L7	L3 and recombinant	78
<input type="checkbox"/>	L6	Strauss James H.in.	0
<input type="checkbox"/>	L5	Strauss James.in.	1
<input type="checkbox"/>	L4	Western equine encephalitis.clm.	4
<input type="checkbox"/>	L3	Western equine encephalitis	135
<input type="checkbox"/>	L2	Hahn Chang.in.	1
<input type="checkbox"/>	L1	Hahn .in.	2342

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FILE 'MEDLINE' ENTERED AT 16:07:03 ON 30 DEC 2003

L1	214 S WESTERN EQUINE ENCEPHALITIS
L2	27331 S NUCLEOTIDE SEQUENCE
L3	4 S L1 AND L2
	E NAGATA L P/AU
L4	11 S E3
L5	4 S E4
L6	5 S L1 AND L4
L7	0 S L5 AND L1

=> d 16 1-3 all

L6 ANSWER 1 OF 5 MEDLINE on STN  
AN 2001199163 MEDLINE  
DN 21182855 PubMed ID: 11289221  
TI Pharmacokinetics study of a novel chimeric single-chain variable fragment antibody against **western equine encephalitis** virus.  
AU Long M C; Marshall K E; Kearney B J; Ludwig G V; Wong J P; **Nagata L**  
P  
CS Chemical and Biological Defence Section, Defence Research Establishment Suffield, Medicine Hat, Alberta, Canada.  
SO HYBRIDOMA, (2001 Feb) 20 (1) 1-10.  
Journal code: 8202424. ISSN: 0272-457X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200108  
ED Entered STN: 20010827  
Last Updated on STN: 20010827  
Entered Medline: 20010823  
AB A novel recombinant single-chain fragment variable (scFv) antibody against **western equine encephalitis** (WEE) virus has been previously constructed and partially characterized. The RS10B5huFc antibody was made by fusing an anti-WEE scFv to a human heavy-chain IgG1 constant region. The RS10B5huFc antibody was functional in binding to WEE virus in enzyme-linked immunosorbent assays (ELISAs), and the Fc domain of the antibody was capable of effector functions, such as binding to protein G and human complement. In this study, the RS10B5huFc antibody was further characterized by BIAcore analyses and was found to possess a binding affinity to a WEE virus epitope ( $K[D] = 9.14 \times 10^{-6}$  M), 4.5-fold lower than its parental mouse monoclonal antibody (MAb) 10B5 E7E2 ( $K[D] = 2 \times 10^{-6}$  M). No cross-reactivity was found between the RS10B5huFc antibody and three other alphaviruses (Sindbis virus [SIN], Venezuelan equine encephalitis [VEE] virus, and eastern equine encephalitis [EEE] virus). Pharmacokinetics studies showed that the RS10B5huFc antibody (free and encapsulated) was found to be retained in the lungs of mice for greater than 48 h when administered intranasally. In contrast, when administered intramuscularly to mice, the RS10B5huFc antibody was not detected in the lungs and only found in the liver and kidneys.  
CT Check Tags: Animal; Support, Non-U.S. Gov't  
Administration, Intranasal  
Alphavirus: IM, immunology  
\*Antibodies, Viral: AD, administration & dosage  
Antibodies, Viral: ME, metabolism  
Antibodies, Viral: PD, pharmacology  
Antibody Specificity  
\*Chimeric Proteins: AD, administration & dosage  
Chimeric Proteins: PK, pharmacokinetics  
Cross Reactions  
Drug Compounding  
\*Encephalitis Virus, Western Equine: IM, immunology  
\*Immunoglobulin Fragments: AD, administration & dosage  
Immunoglobulin Fragments: ME, metabolism  
Immunoglobulin Fragments: PD, pharmacology  
\*Immunoglobulin Variable Region: AD, administration & dosage  
Immunoglobulin Variable Region: ME, metabolism  
Immunoglobulin Variable Region: PD, pharmacology  
Injections, Intramuscular  
Liposomes

Mice  
 Mice, Inbred BALB C  
 Organ Specificity  
 Tissue Distribution  
 CN 0 (Antibodies, Viral); 0 (Chimeric Proteins); 0 (Immunoglobulin  
 Fragments); 0 (Immunoglobulin Variable Region); 0 (Liposomes)

L6 ANSWER 2 OF 5 MEDLINE on STN  
 AN 2001075851 MEDLINE  
 DN 20324643 PubMed ID: 10868791  
 TI Construction and characterization of monoclonal antibodies against  
**western equine encephalitis virus**.  
 AU Long M C; Nagata L P; Ludwig G V; Alvi A Z; Conley J D; Bhatti A  
 R; Suresh M R; Fulton R E  
 CS Medical Countermeasures Section, Defence Research Establishment Suffield,  
 Alberta, Canada.  
 SO HYBRIDOMA, (2000 Apr) 19 (2) 121-7.  
 Journal code: 8202424. ISSN: 0272-457X.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200101  
 ED Entered STN: 20010322  
 Last Updated on STN: 20010322  
 Entered Medline: 20010111

AB A repertoire of mouse monoclonal antibodies (MAbs) against **western  
 equine encephalitis virus (WEE)** was constructed and  
 characterized. Anti-WEE antibodies were expressed from hybridomas and  
 purified by protein G chromatography. Each of the antibodies was  
 functionally assessed by indirect enzyme-linked immunosorbent assays  
 (ELISAs), Western blotting, and immunoprecipitations. All antibodies  
 bound to WEE antigen in ELISAs, whereas only a subgroup of antibodies was  
 found to be active in Western blotting and immunoprecipitations. A subset  
 of antibodies was found to cross-react with other alphaviruses, such as  
 Sindbis virus (SIN), Venezuelan equine encephalitis (VEE), and eastern  
 equine encephalitis (EEE). Because many of the antibodies were highly  
 reactive to WEE antigen in one or more of the assays, these antibodies are  
 excellent candidates for immunodetection and immunotherapy studies.

CT Check Tags: Animal; Support, Non-U.S. Gov't  
 \*Antibodies, Monoclonal: IM, immunology  
 Antigens, Viral: IM, immunology  
 Blotting, Western  
 Cross Reactions  
 Encephalitis Virus, Eastern Equine: IM, immunology  
 Encephalitis Virus, Venezuelan Equine: IM, immunology  
 \*Encephalitis Virus, Western Equine: IM, immunology  
 Enzyme-Linked Immunosorbent Assay  
 Hybridomas: CH, chemistry  
 Immunoglobulin Isotypes: AN, analysis  
 Mice  
 Mice, Inbred BALB C  
 Precipitin Tests  
 Sindbis Virus: IM, immunology

CN 0 (Antibodies, Monoclonal); 0 (Antigens, Viral); 0 (Immunoglobulin  
 Isotypes)

L6 ANSWER 3 OF 5 MEDLINE on STN  
 AN 2000229323 MEDLINE  
 DN 20229323 PubMed ID: 10768836  
 TI Construction and characterization of a novel recombinant single-chain  
 variable fragment antibody against **Western equine**

**encephalitis virus.**

AU Long M C; Jager S; Mah D C; Jebailey L; Mah M A; Masri S A; Nagata L  
P  
CS Medical Countermeasures Section, Defence Research Establishment Suffield,  
Medicine Hat, Alberta, Canada.  
SO HYBRIDOMA, (2000 Feb) 19 (1) 1-13.  
Journal code: 8202424. ISSN: 0272-457X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200007  
ED Entered STN: 20000810  
Last Updated on STN: 20000810  
Entered Medline: 20000721  
AB A novel recombinant single-chain fragment variable (scFv) antibody against  
**Western equine encephalitis virus (WEE)** was  
constructed and characterized. Using antibody phage display technology, a  
scFv was generated from the WEE specific hybridoma, 10B5 E7E2. The scFv  
was fused to a human heavy chain IgG1 constant region (CH1-CH3) and  
contained an intact 6 His tag and enterokinase recognition site  
(RS10B5huFc). The RS10B5huFc antibody was expressed in E. coli and  
purified by affinity chromatography as a 70-kDa protein. The RS10B5huFc  
antibody was functional in binding to WEE antigen in indirect  
enzyme-linked immunosorbent assays (ELISAs). Furthermore, the RS10B5huFc  
antibody was purified in proper conformation and formed multimers. The  
addition of the human heavy chain to the scFv replaced effector functions  
of the mouse antibody. The Fc domain was capable of binding to protein G  
and human complement. The above properties of the RS10B5huFc antibody  
make it an excellent candidate for immunodetection and immunotherapy  
studies.  
CT Check Tags: Animal; Human; Support, Non-U.S. Gov't  
Amino Acid Sequence  
\*Antibodies, Viral: CH, chemistry  
\*Antibodies, Viral: GE, genetics  
Antibodies, Viral: IP, isolation & purification  
Antibodies, Viral: ME, metabolism  
Antigens, Viral: IM, immunology  
Antigens, Viral: ME, metabolism  
Binding Sites, Antibody  
Cloning, Molecular  
\*Encephalitis Virus, Western Equine: IM, immunology  
Hybridomas  
\*Immunoglobulin Variable Region: CH, chemistry  
\*Immunoglobulin Variable Region: GE, genetics  
Immunoglobulin Variable Region: ME, metabolism  
\*Immunoglobulins, Fc: CH, chemistry  
\*Immunoglobulins, Fc: GE, genetics  
Immunoglobulins, Fc: ME, metabolism  
Mice  
Molecular Sequence Data  
\*Recombinant Proteins: CS, chemical synthesis  
Recombinant Proteins: IM, immunology  
Recombinant Proteins: IP, isolation & purification  
Recombinant Proteins: ME, metabolism  
CN 0 (Antibodies, Viral); 0 (Antigens, Viral); 0 (Binding Sites, Antibody); 0  
(Immunoglobulin Variable Region); 0 (Immunoglobulins, Fc); 0 (Recombinant  
Proteins)



J Gen Virol. 2002 Dec;83(Pt 12):3075-84.  
PMID: 12466484 [PubMed - indexed for MEDLINE]

☐ **16:** [Liu JJ, Tsai TH, Chang TJ, Wong ML.](#)

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Cloning and sequencing of complete cDNA of Japanese encephalitis virus YL strain in Taiwan.

Virus Genes. 2003;26(2):193-8.

PMID: 12803471 [PubMed - indexed for MEDLINE]

☐ **17:** [Faragher SG, Meek AD, Rice CM, Dalgarno L.](#)

[Related Articles](#), [Links](#)



Genome sequences of a mouse-avirulent and a mouse-virulent strain of Ross River virus.

Virology. 1988 Apr;163(2):509-26.

PMID: 2833022 [PubMed - indexed for MEDLINE]

☐ **18:** [Kinney RM, Johnson BJ, Brown VL, Trent DW.](#)

[Related Articles](#), [Links](#)



Nucleotide sequence of the 26 S mRNA of the virulent Trinidad donkey strain of Venezuelan equine encephalitis virus and deduced sequence of the encoded structural proteins.

Virology. 1986 Jul 30;152(2):400-13.

PMID: 3088830 [PubMed - indexed for MEDLINE]

☐ **19:** [Osatomi K, Fuke I, Tsuru D, Shiba T, Sakaki Y, Sumiyoshi H.](#)

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Nucleotide sequence of dengue type 3 virus genomic RNA encoding viral structural proteins.

Virus Genes. 1988 Oct;2(1):99-108.

PMID: 3227644 [PubMed - indexed for MEDLINE]

☐ **20:** [Levinson RS, Strauss JH, Strauss EG.](#)

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Complete sequence of the genomic RNA of O'nyong-nyong virus and its use in the construction of alphavirus phylogenetic trees.

Virology. 1990 Mar;175(1):110-23.

PMID: 2155505 [PubMed - indexed for MEDLINE]

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